

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 815 to 858

Handwritten note:  $S^2 H$

Handwritten note:  $S^2 H + S^2$

Handwritten note:  $S^2 H \quad n n \epsilon \frac{1}{2} \epsilon$

Handwritten note:  $S^2 H \quad n n \epsilon \frac{1}{2} \epsilon$

Book No 2

1880

53

2

All hearings in this  
book are Magnetic  
Dr Van Vliet

# "Cester Rake" H. Sledge

## TEMPERATURE RECORD.

Instrument used, *n 3*

Current number of observation, *815*

Date, *Aug 18 1880*

Locality, *Atlantic Ocean -*

Bearings, *Block Island Lgt - N. W. x N. -*

*17 miles*

Time of day, *2.15* ; of tide,

State of sky, *b c*

Temperature of air, *72*

" surface of water, *72* (*40-737*)

" at depth of *5* fathoms, *71* (*10 f 56*) (*20 f 49*)

" of bottom, *48* (*42666*)

Depth, in fathoms, *29*

Nature of bottom, *sand*

Direction of surface current, *minor S*

Force of surface current, *" 2*

Direction of bottom current, *Drift S W*

*drift*

Force of bottom current, *" 1/4 mile.*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.C.*

Name and rank of commanding officer,

*Lt J L Lawrence*

Name and position of observer,

*Th. Van Fleet M.D.*

REMARKS.

Liparis ex Pect. Truncat.  
Mercurius Sulincaris juv.

*Alfred*  
TEMPERATURE RECORD.

Instrument used, *73*

Current number of observation, *816*

Date, *Aug - 23<sup>rd</sup>*

Locality, *Narragansett Bay -*

Bearings, *Pontons Reef Light Ship E  $\frac{3}{4}$  S.*

*2  $\frac{3}{4}$  miles*

Time of day, *10.25<sup>-</sup>* ; of tide,

State of sky, *clear*

Temperature of air, *71*

" surface of water, *69* (*40007*)

" at depth of *6* fathoms,

" of bottom, *66* (*42000*)

Depth, in fathoms, *8  $\frac{1}{2}$*

Nature of bottom, *sand*

Direction of surface current, *near S*

Force of surface current, *" 2*

Direction of bottom current, *rough ~~W~~ ~~N~~ ~~W~~ S E*

Force of bottom current, *"  $\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

*Lt J L Larnen*

Name and position of observer,

*McClure M. R.*  
*H*

REMARKS.

816-

*Amphipods*

*Echinaria chinensis parva* -



*Dredge*

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *817*

Date, *Aug 23*

Locality, *Murray and the Bay*

Bearings, *Phonon's Reef Light Ship E 1/2 N*  
*3 miles -*

Time of day, *11 am* ; of tide,

State of sky, *Clear*

Temperature of air, *72*

" surface of water, *68* (*40007*)

" at depth of fathoms,

" of bottom, *63* (*42666*)

Depth, in fathoms, *10*

Nature of bottom, *Sand*

Direction of surface current, *Wind S*

Force of surface current, " *2*

Direction of bottom current, *Drift NESE*

Force of bottom current, " *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer,

*W. J. Lunn*

Name and position of observer,

*Thos. A. Lick M.D.*

REMARKS.

817-

Same character as 816.

Echinocactus forma. many.

~~Temperature Record~~  
TEMPERATURE RECORD.

Instrument used, *n 3*

Current number of observation, *515*

Date, *Aug 23<sup>rd</sup>*

Locality, *Narragansett Bay*

Bearings, *Providence Light Ship E  $\frac{1}{2}$  N  
3  $\frac{1}{4}$  miles*

Time of day, *11.20* ; of tide,

State of sky, *Clear*

Temperature of air, *72*

" surface of water, *68* (*40003*)

" at depth of fathoms,

" of bottom, *65-* (*42666*)

Depth, in fathoms, *9  $\frac{1}{2}$*

Nature of bottom, *sand*

Direction of surface current, *Wind S*

Force of surface current, *" 2*

Direction of bottom current, *Drift SE*

Force of bottom current, *"  $\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

*Lt J. L. Tanner*

Name and position of observer,

*McKullit MR*

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used,

N 3

Current number of observation,

819

Date, Aug 23

Locality, Narragansett Bay -

Bearings, South End Hope Island S E  $\frac{1}{2}$  E.  
 $\frac{1}{2}$  mile

Time of day, 1 P M ; of tide,

State of sky, Clear

Temperature of air, 74

" surface of water, 73

(42227)

" at depth of fathoms,

" of bottom, 70

(42666)

Depth, in fathoms, 6

Nature of bottom, mud

Direction of surface current, none S S W

Force of surface current, " 3

Direction of bottom current, Drift W S W

Force of bottom current, "  $\frac{1}{4}$  mile

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt Z. L. Loomis

Name and position of observer,

McNaughton M.D.

# REMARKS.

The mid of the deep sea. The water at  
 No 42666 was much warmer and more  
 was found in the tube and in  
 the other end (both of the  
 instrument - used it for the  
 water of the sounding this day for  
 surface temperature -  
 used No 42667 for deep.  
 89 *Stenotomus argyrops*  
*Rondoplaconetes americanus*  
*Lophopettia maculata*  
*Prionotus carolinus*  
*Leptocottus armatus*  
*Eng. aulis vittatus*  
*Pandalus homarus dentatus*.

Vernal  
TEMPERATURE RECORD.

Instrument used, *N 3*  
Current number of observation, *820*  
Date, *Aug 23<sup>rd</sup>*  
Locality, *Maryansett Bay*  
Bearings, *South End Light Is. N 1/2 E*  
*1/4 mile*  
Time of day, *1.40 p.m.*; of tide,  
State of sky, *Clear*  
Temperature of air, *76*  
" surface of water, *72* (*42665*)  
" at depth of fathoms,  
" at bottom, *70* (*40007*)  
Depth, in fathoms, *5 1/2*  
Nature of bottom, *Mud*  
Direction of surface current, *Drift S S W*  
Force of surface current, "*4*  
Direction of bottom current, *Drift N x S*  
Force of bottom current, "*1/4 mile*  
Name of vessel, *Fish Hawk*  
To what service attached, *U.S.F.C.*  
Name and rank of commanding officer,  
*Lt J. L. Lomen*  
Name and position of observer,

*J. C. Van Fleet M.D.*

## REMARKS.

620 *Syngrapha* *disca*  
*Arctio-plumbea* *color* *monocoma*  
*Choragys* *brunnea* *pis*



Truett

TEMPERATURE RECORD.

Instrument used,

23

Current number of observation,

821

Date,

Aug 23

Locality,

Herringanett Bay

Bearings,

Pointed Rock Island N.E.

1/2 mile

Time of day, 2.15 P.M.; of tide,

State of sky,

Clear

Temperature of air,

78

" surface of water,

72

(4266)  
(4266)

" at depth of fathoms,

" of bottom,

70

(4267)  
(4266)

Depth, in fathoms,

5

Nature of bottom,

Mud

Direction of surface current,

mid S S W

Force of surface current,

" 4

Direction of bottom current,

Drift S W

Force of bottom current,

" 1/4 mile

Name of vessel,

Fish Hawk

To what service attached,

U.S.F.C.

Name and rank of commanding officer,

Lt J. L. Lawrence

Name and position of observer,

J. C. Van Fleet M.D.  
H

# REMARKS.

521 Racia 26 juv. one spec  
Rueda & Honduca Hongue juv.

Trawl  
TEMPERATURE RECORD.

Instrument used, *N 3*  
Current number of observation, *822*  
Date, *Aug 23*  
Locality, *Narragansett Bay -*  
Bearings, *South end of Pease Island NE*  
*1/2 mile*  
Time of day, *3 P.M.*; of tide,  
State of sky, *Clear*  
Temperature of air, *78*  
" surface of water, *71* (*42666*)  
" at depth of \_\_\_\_\_ fathoms,  
" of bottom, *70* (*41537*)  
Depth, in fathoms, *4 1/2*  
Nature of bottom, *Sand*  
Direction of surface current, *Wind S by W -*  
Force of surface current, "  
Direction of bottom current, *Drift W*  
Force of bottom current, "  
*1/4 mile*  
Name of vessel, *Fish Hawk*  
To what service attached, *U.S.N.*  
Name and rank of commanding officer,  
*Lt J. L. Lamon*  
Name and position of observer,

*W. H. H. H.*

REMARKS.

822. *Pionotus carolinus*  
*Lophoptera maculata*  
*Stenotoma angustipes*  
*Euprosoma regalis*, juv.  
*Leptogasterus adpressus*  
*Phyas tenuis*

*Hedge*

TEMPERATURE RECORD.

Instrument used. *N 3*

Current number of observation. *823*

Date, *Aug 24*

Locality. *Atlantic Ocean.*

Bearing. *North Light Block Island. N  $\frac{1}{2}$  S*

*1  $\frac{1}{2}$  miles*

Time of day. *12.35* ; of tide.

State of sky. *b.c.*

Temperature of air. *74*

" surface of water. *63*

*(46418)*  
~~*(46418)*~~

" at depth of *5* fathoms. *63. (10 f - 63)*

" of bottom. *60*

*(46418)*  
~~*(46418)*~~

Depth, in fathoms. *15  $\frac{1}{2}$*

Nature of bottom. *Sand*

Direction of surface current. *Wind N*

Force of surface current. *" 3*

Direction of bottom current. *Drift NW*

Force of bottom current. *"  $\frac{1}{4}$  mile*

Name of vessel. *Fish Hawk*

To what service attached. *U.S.F.C.*

Name and rank of commanding officer.

*Lt J. L. Zimmerman*

Name and position of observer.

*Th. H. Platt M.D.*

# REMARKS.

623

Pecten Arminiacatus  
 Leptostomus limfata  
 Sargassum lenticularis  
 Echinacea chinensis  
 Strongylocentrotus droba chinensis  
 Modiola modiolus  
 Crangon vulgaris

*Travail*  
TEMPERATURE RECORD.

Instrument used,

*N 3*

Current number of observation,

*824*

Date, *Aug 24*

Locality, *Atlantic Ocean*

*Beacon North Light Black Island - S W 1/4 N*  
*1 mile -*

Time of day, *12.30* ; of tide,

State of sky, *Clear -*

Temperature of air, *74*

surface of water, *65*

*(464.25)*  
*(464.25)*

at depth of *5* fathoms, *63* (*10 f 63*)

of bottom, *67*

*(464.25)*  
*(426.66)*

Depth, in fathoms, *13*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *Wind* *W*

Force of ~~surface~~ current, *"* *3*

Direction of ~~bottom~~ current, *Drift* *N W*

Force of ~~bottom~~ current, *"* *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

*A. J. L. Larnen*

Name and position of observer,

*McVicker M.D.*

## Zoarconidae

*Pecten tenuicostatus**Stenopus* ~~*Stenopus*~~*Modiola Modiolus**Hydroides formicata**Siligo Reali**Lophasterias* ~~*Lophasterias*~~*Stenopus* ~~*Stenopus*~~*Hydroides formicata**Santoga onitus**Santoga labrus adoperens**Raja laevis.**Cottus* sp. juv.*Lophosetta maculata.**Præcis tenuis.**Pseudopleuronectes americanus.**Pseudorhombus dentatus**Raja erinacea**" radiata.**Liparis* sp. in *Pecten tenuicostatus.**Goniolus carolinus**Pseudorhombus oblongus.*



# Otter Trawl

## TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *820-*

Date, *Aug 24*

Locality, *Atlantic Ocean -*

Bearings, *North Light Rock Island. N 57  $\frac{3}{4}$  W*  
*1  $\frac{1}{4}$  miles*

Time of day, *1.30 pm*; of tide,

State of sky, *Clear -*

Temperature of air, *73*

" surface of water, *67* (*46460*  
~~*46460*~~)

" at depth of *5* fathoms, *61*

" of bottom, *60* (*46827*  
~~*42666*~~)

Depth, in fathoms, *13*

Nature of bottom, *Sand*

Direction of surface current, *Wind N 2 W*

Force of surface current, " *4*

Direction of bottom current, *Drift N W*

Force of bottom current, "  *$\frac{1}{2}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer,

*Lt J L Loomer*

Name and position of observer,

*Dr. Van Fleet M.D.*

## REMARKS.

*Echinaria chlorius spuma*  
 stipes: Dred:

*Notth. tenuicostatus*  
*Stylifer Stimpsoni*  
*Mastra solidissima*  
*Cancer mesochorus*

825 *Raia* sp.

*Cogndorhombus dentatus.*

*Lophopsetta maculata.*

*Cogndopleuronectes americanus.*

*Guanolus carolinus.*

Bridge

TEMPERATURE RECORD.

Instrument used. *N 3*

Current number of observation, *826*

Date. *Aug 24*

Locality. *Atlantic Ocean -*

Bearings. *North-Light Black Island - N. N. W.  $\frac{1}{2}$  W.*  
*2 1/2 miles.*

Time of day, *2.40* ; of tide,

State of sky. *clear*

Temperature of air, *73*

" surface of water, *67* (*46 yrs*)

" at depth of *5* fathoms, *66*

" of bottom, *57* (*4 or 57*)

Depth, in fathoms, *22*

Nature of bottom, *sand*

Direction of ~~surface current~~, *Wind* *S*

Force of ~~surface current~~, *Wind* *3*

Direction of ~~bottom current~~, *Drift* *SS W.*

~~Force of bottom current~~, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,

*Lt Jb Lamm - USN*

Name and position of observer,

*Dr. H. A. List USN*

REMARKS.

Blake Trawl  
Log

# TEMPERATURE RECORD.

Instrument used.

W2

Current number of observation.

827

Date.

Aug 24

Locality.

Atlantic Ocean

Bearing.

North Light Black Island N N W 1/2 W  
2 1/2 miles

Time of day.

3.05

; of tide.

State of sky.

Clear

Temperature of air.

71

surface of water.

67

(46400)

at depth of 5 fathoms.

66

of bottom.

57

(40007)

Depth, in fathoms.

20 1/2

Nature of bottom.

Sand

Direction of surface current.

Wind

S

Force of surface current.

Wind

3

Direction of bottom current.

Drift

Force of bottom current.

Drift

Name of vessel.

Fish Hawk

To what service attached.

US FC

Name and rank of commanding officer.

Lt J L Lammey Jr.

Name and position of observer.

McNally list WMO

REMARKS.

527. *Phycis Erucis*.  
*Raid Erucis*

Bridge

TEMPERATURE RECORD.

Instrument used,

N Z

Current number of observation,

828

Date,

Aug 25

Locality,

Atlantic Ocean.

Bearings,

North of Blk Island S 77° 11' 3/4 W

2 1/2 miles -

Time of day, 12.40

; of tide,

State of sky,

stormy -

Temperature of air,

70

"

surface of water,

66

(46400)

"

at depth of

fathoms,

"

of bottom,

60

(40000)

Depth, in fathoms,

15

Nature of bottom,

Sand.

Direction of ~~surface current~~,

Wind N N E

Force of ~~surface current~~,

Wind 6

Direction of ~~bottom current~~,

Drift E N E.

~~Force of bottom current~~,

Drift of drift.

1/4 mile

Name of vessel,

Fish Hawk

To what service attached,

U. S. F.

Name and rank of commanding officer,

Lt J L Larnow

Name and position of observer,

Herbert M. M. M.

*Echinarachnoides parma-*  
*stredema emiseuata*  
*Cinolana. Nephthys.*  
*Small sandy aspidion -*  
*few small shells -*



*Bridge*  
TEMPERATURE RECORD.

Instrument used,

*N 3*

Current number of observation,

*829*

Date, *Aug 27*

Locality, *off Sacramento River -*

Bearings, *Orleans Point Bar N 77° N*

*1/4 mile*

Time of day, *10.45* ; of tide,

State of sky, *clear*

Temperature of air, *63.*

" surface of water, *66*

*(92666  
~~46444~~)*

" at depth of fathoms,

" of bottom, *65*

*(41707)*

Depth, in fathoms, *9*

Nature of bottom, *Sandy, Gravel + shales*

Direction of ~~surface~~ current, *Wind East*

Force of ~~surface~~ current, *mod 2*

Direction of ~~bottom~~ current, *Drift. S x E*

Force of ~~bottom~~ current, *drift drift 1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *US F C*

Name and rank of commanding officer,

*Lt J L Larnen*

Name and position of observer,

*J. A. Whit M.D.*

## REMARKS.

*Chamaeleon* -  
*Pyrosoma* on seaweed -  
*Adiantum forbesii*  
*Libinia marginata* -  
*Opheodes* *holia aculeata*  
*Cancer* -  
*Chiton* *massachusetts*  
*Lepidula* *formosa*  
*Musculina* *Musculina*  
*Balanus* -



## REMARKS.

*few annelids*  
*Cancer sinuatus*  
*Euprymna scolopes*  
*Arcturus fischeri*

*Hedge*

TEMPERATURE RECORD.

Instrument used,

*77*

Current number of observation,

*831*

Date, *Aug 27.*

Locality, *Sakumet River.*

Bearings, *North End Grand Island*

*S 77 1/4 W 350 yards.*

Time of day, *12.30 pm*; of tide,

State of sky, *Clear.*

Temperature of air, *16*

" surface of water, *71*

*(42666)*

" at depth of fathoms,

" of bottom, *71*

*(46007)*

Depth, in fathoms, *6*

Nature of bottom, *Black Mud*

Direction of ~~surface~~ current, *Wind SE*

Force of ~~surface~~ current, *Wind 1*

Direction of ~~bottom~~ current, *Drift S*

*Drift Drift*  
Force of ~~bottom~~ current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,

*Lt J. L. Lawrence*

Name and position of observer,

*Lt. Van Fleet USN,*

## REMARKS.

*Mucula proxima*  
*Mulinia lateralis*  
*Yoldia lineatula*

*Hedge*  
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *832*

Date, *Aug 27*

Locality, *Bahamas River*

Bearings, *N. end Gould Island N. by E.*

*150 fathoms*

Time of day, *12.45* ; of tide,

State of sky, *clear*

Temperature of air, *70*

surface of water, *71*

*(42666)*

at depth of fathoms,

of bottom, *71*

*(40007)*

Depth, in fathoms, *69*

Nature of bottom, *Blk. Mud -*

Direction of ~~surface current~~, *from S E*

Force of ~~surface current~~, *mod 1*

Direction of ~~bottom current~~, *drift S*

Force of ~~bottom current~~, *1/4 mi -*

Name of vessel, *Fish Hawk*

To what service attached, *US F C*

Name and rank of commanding officer,

*H Z L Lumsden*

Name and position of observer,

*H. L. Van Vleet M.D.*  
*H*

832

REMARKS.

*None used 831*



Charles Parker Hodge

TEMPERATURE RECORD.

Instrument used,

N 3

Current number of observation,

833

Date,

Aug 27

Locality,

Sakomnet River -

Bearings,

South end of Island - 20.

100 fathoms

Time of day,

1 pm

; of tide.

State of sky,

Clear

Temperature of air,

70

"

surface of water,

71

(42666)

"

at depth of

fathoms,

"

of bottom,

71

(42667)

Depth, in fathoms,

6 1/2

Nature of bottom,

Sand -

Direction of surface current,

Wind S E

Force of surface current,

Wind 1

Direction of bottom current,

Drift S

Drift Drift

Force of bottom current,

1/4 mile

Name of vessel,

Fish Hawk

To what service attached,

US F C

Name and rank of commanding officer,

Lt J L Linn

Name and position of observer,

J. C. Ward / lit 7210

## REMARKS.

No. 1 in character of last

Chester Lake Lodge -

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *834-*

Date, *Aug 27*

Locality, *Sahometh River -*

Bearings, *McLure's Point N.S.W.*

*3/4 mile*

Time of day, *1.30* ; of tide,

State of sky, *clear*

Temperature of air, *63*

" surface of water, *73* (*4266*)

" at depth of fathoms,

" of bottom, *71* (*4000*)

Depth, in fathoms, *11*

Nature of bottom, *sand, -*

Direction of ~~surface current~~, *Wind* *E*

Force of ~~surface current~~, *wind* *2*

Direction of ~~bottom current~~, *light* *N x E*

*slight slight*  
Force of ~~bottom current~~, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

*Lt J E Loomis*

Name and position of observer,

*Pl. Van Cleet M.D.*

## REMARKS.

*Mimula proteriosa*  
*Orebidula formicata*  
*Toldia domatula*  
*Lyctopus canaliculatus*  
*Helinia canaliculata*  
*Miconia prolifera*  
*Nepenthes*  
*Cistoclelea Gouldii*  
*Eupogonius pallidus*  
     do      *longicauda*  
*Oreocera*  
*Melvinia lateralis*

Chester Rube Hensley  
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *835*

Date, *Aug 27*

Locality, *Bokehatch River.*

Bearings, *McLure's Point N  $\frac{1}{4}$  E -  
1  $\frac{1}{4}$  miles*

Time of day, *1:50* ; of tide,

State of sky, *clear*

Temperature of air, *68*

surface of water, *73*

*(142666)*

" at depth of fathoms,

" of bottom, *71*

*48777*

Depth, in fathoms, *3  $\frac{1}{2}$*

Nature of bottom, *shells*

Direction of surface current, *wind* *SE*

Force of surface current, *wind* *2*

Direction of bottom current, *drift* *N*

Force of bottom current, *Rich 120 ft*  *$\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *US FC*

Name and rank of commanding officer,

*Lt J L Lamm*

Name and position of observer,

*J. C. Van der Lint M.D.*

## REMARKS.

*Replicata formicaria*  
*Libinia Canaliculata*  
 1 specimen same no 234

# Chester Ropes Bridge

## TEMPERATURE RECORD.

Instrument used. *n 3*

Current number of observation. *836*

Date, *Aug 27*

Locality, *Sapponet River*

Bearings, *Black Point - N  $\frac{1}{4}$  S.  $\frac{1}{2}$  mile*

Time of day, *2.25* ; of tide,

State of sky, *Clear*

Temperature of air, *66*

surface of water, *71* *42666*

at depth of fathoms,

of bottom, *71* *40727*

Depth, in fathoms, *5*

Nature of bottom, *Sand,*

Direction of ~~surface current~~, *Wind - SSE*

Force of ~~surface current~~, *do 2*

Direction of ~~bottom current~~, *drift SSE*  
*drift drift*  *$\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer,

*Lt J L Loring*

Name and position of observer,

*F. C. Van Vleet M. A.*

## REMARKS.

Sand Flemin's Coals

*Regulus Vermis*

*Empidonax hammondi*

*Phylloscopus collybita*

*Libinia canaliculata*



Yacht  
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *837*

Date, *Aug 27*

Locality, *Sakomnet River*

Bearings, *Block Point N 97° 12' 1/2 W 1/2*  
*1/2 Mile*

Time of day, *2.45* ; of tide,

State of sky, *Clear*

Temperature of air, *69*

" surface of water, *71* *42666*

" at depth of fathoms,

" of bottom, *41* *41207*

Depth, in fathoms, *5*

Nature of bottom, *sand*

Direction of surface current, *none* *SE*

Force of surface current, *do* *2*

Direction of bottom current, *drift* *S + E*

*drift drift*  
Force of bottom current, *1/2 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

*Lt J L Lawrence*

Name and position of observer,

*J. C. Vane Fleet No 10*

## REMARKS.

- Siderius emarginatus*  
*Coryphæa univittatus*  
*Platyoniscus ocellatus*  
*Neorhina duplicata*  
*Leptopus carica*  
*Lycotrupes consociatus*  
*Talysa Reali*  
*Engraulis pallidus*  
*Leptidula flava*  
*Periploca armata*  
*Artibeus forbesii*  
*Autogolatus adpersus*  
*Lophopsetta maculata*  
*Cynoscion regalis* juv. numerous.  
*Engraulis vitatus*  
*Goniistius triacanthus* abundant.  
*Pseudopleuronectes americanus*. One.  
*Pseudorhombus dentatus*  
                                   *oblongus*  
*Goniistius carolinus* juv. att.  
                                   *evolutus* " scarce.  
*Raja cinnamomea*?  
*Mentemora nebulosa*  
*Liponostoma fusca*

Yard

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *838*

Date, *Aug 27*

Locality, *Sakonnet River*

Bearings, *Woods Castle N x N*  
*1 mile*

Time of day, *3.15* ; of tide.

State of sky, *clear*

Temperature of air, *66*

" surface of water, *70* (42666)

" at depth of fathoms.

" of bottom, *68* (40007)

Depth, in fathoms, *5 1/2*

Nature of bottom, *Sand*

Direction of surface current, *Wind S x E*

Force of surface current, *do 2*

Direction of bottom current, *drift S x E*

*drift drift*  
Force of bottom current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *US F C*

Name and rank of commanding officer,

*Lt J L Lamm*

Name and position of observer,

*Dr F C Fawclich*

*Large annulatus fuliginosus*  
*Oreana arctica*

*Dasytypus Canaliculatus*

*Derjuba tinnita*

*Platynosius albata*

*Reffidnea sparsa*

*Echinura chinensis parva*

*Liliopsis convolvulata*

*Ampagurus pollicaris*

*Poronotus triacanthus*

*Chiliclypeus turgidus* Com.

*Prionotus carolinus*

*Raja erinacea*

*Pseudorhombus dentatus*

*Stenotomus argyrops*

*Lophoetta maculata*

Bridge

TEMPERATURE RECORD.

Instrument used,

N 8

Current number of observation,

839

Date,

Aug 31<sup>st</sup>

Locality,

Norhampten Bay

Bearing,

Bumpkins

N 74 1/2 E

312 yards

Time of day,

9.50

; of tide.

State of sky,

b c

Temperature of air,

67

"

surface of water,

67

(42666)

"

at depth of

5

fathoms,

62. (10 f - 65)

"

of bottom,

61

(40007)

Depth, in fathoms,

27 1/2

Nature of bottom,

Gravel -

Direction of ~~surface~~ current,

From N N E

Force of ~~surface~~ current,

do

2

Direction of ~~bottom~~ current,

Drift N N W

Force of ~~bottom~~ current,

1/4 mile

Name of vessel,

Fish Hawk

To what service attached,

U S F C

Name and rank of commanding officer,

Lt Z L Lammens

Name and position of observer,

Dr F C Van Vliet

## REMARKS.

*Cassia borealis**" occidentalis**Regula tunita**Pyroga succutaria stones**Ancistrum striatum**Ventricaria borealis**Helianthus Proterus*

Ledge

TEMPERATURE RECORD.

Instrument used, *N Z.*

Current number of observation, *840*

Date, *Aug 31*

Locality, *Narragansett Bay*

Bearings, *Dumplings. N x N  $\frac{1}{2}$  W*  
*100 fms*

Time of day, *10.05* ; of tide,

State of sky, *b c*

Temperature of air, *67*

" surface of water, *67* (*42666*)

" at depth of *5* fathoms, *65 (10 f 65)*

" of bottom, *61* *40007*

Depth, in fathoms, *20 1/2*

Nature of bottom, *Gravel*

Direction of ~~surface current~~, *Wind N x E*

Force of ~~surface current~~, *" 2*

Direction of ~~bottom current~~, *Drift*

*Light Drift*  
~~Force of bottom current~~,

Name of vessel, *Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer,

*Lt J L Larnen*

Name and position of observer,

*Lt J L Larnen*

840

REMARKS.

Same as 839



Sledge  
TEMPERATURE RECORD.

Instrument used, *N Z*

Current number of observation, *841*

Date, *Aug-31*

Locality, *Murray's Bay*

Bearings, *Rhode Island Lgt. N E x E  $\frac{3}{4}$  E*

*7/8 mile*

Time of day, *10.45* ; of tide,

State of sky, *2 C*

Temperature of air, *65*

" surface of water, *67* (42666)

" at depth of *5* fathoms, *67 (10 f 65)*

" of bottom, *60* (42667)

Depth, in fathoms, *21*

Nature of bottom, *Mud*

Direction of surface current, *mod E N E*

Force of surface current, *do 2*

~~Direction of bottom current.~~ *S*

*drift of drift*  
Force of bottom current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer,

*Lieut J. L. Tanner*

Name and position of observer,

*Geo F C Van Kleeck*

## REMARKS.

*Setina Lepida*  
*Metridium marginatum*

*Bridge*

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *842*

Date, *Aug 31*

Locality, *Naugansett Bay,*

Bearings, *Great Island Light ENE 1/2 E*

*1/2 mile*

Time of day, *11 am* ; of tide

State of sky, *Clear*

Temperature of air, *69*

surface of water, *67*

*(42666)*

" at depth of fathoms

" of bottom, *67*

*(42771)*

Depth, in fathoms, *8*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *Toward East*

Force of ~~surface~~ current, *Toward 2*

Direction of ~~bottom~~ current, *Along*

*High Water.*

Force of ~~bottom~~ current,

Name of vessel, *Fish Hawk*

To what service attached, *W S F C*

Name and rank of commanding officer,

*Lieut J. S. Loomis*

Name and position of observer,

*W S F C Van Rieck*

897

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used,

N 3

Current number of observation,

843

Date, Aug 31 1880

Locality, Managawatch Bay -

Bearing N. end of Lays Island N E  $\frac{1}{2}$  E

$\frac{3}{4}$  mile

Time of day, 12. M ; of tide.

State of sky, Clear

Temperature of air, 69

surface of water, 69

(42666)

" at depth of 5 fathoms, 67

" of bottom, 63

(40007)

Depth, in fathoms, 14  $\frac{1}{2}$

Nature of bottom, sand -

Direction of ~~surface current~~, wind East

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, drift N

Force of ~~bottom current~~,  $\frac{1}{4}$  mile

Name of vessel, Fish Hawk

To what service attached, U.S. F.C.

Name and rank of commanding officer,

Lieut J. L. Loomis

Name and position of observer,

W. S. F. C. Van Fleet

## REMARKS.

*Actinia Pukell*  
*Cribrella sanguinolenta*  
*Poranus Americanus*  
*Cancer borealis*  
*Pseudobombus dentatus*  
*Pseud. borealis*  
*Lophoporella muricata*  
*Rana* sp.  
*Physa* sp.  
*Physa* sp.  
*Pseudobombus abnormis*  
*Cyprina regalis*  
*Stenotomus argyrops*

*Ymer*

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *844*

Date, *Aug 31*

Locality, *Winnamuccet Bay -*

Barings, *N. end of Long Island SE  $\frac{1}{2}$  E*

*$\frac{1}{4}$  mile*

Time of day, *12.30* ; of tide,

State of sky, *Clear*

Temperature of air, *70*

surface of water, *69* (42666)

" at depth of *5* fathoms, *67*

" of bottom, *63* (40007)

Depth, in fathoms, *11  $\frac{1}{2}$*

Nature of bottom, *Sand.*

Direction of ~~surface current~~, *Wind E*

Force of ~~surface current~~, *do 2*

Direction of ~~bottom current~~, *Drift W S W*

*Drift*

~~Force of bottom current~~,  *$\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

*Lieut. J. L. Larmon*

Name and position of observer,

*Dr. J. C. Van Fleet*

## REMARKS.

*Laminaria. Gelidium Gelidium*  
*Cribrella sanguinolenta*  
*Thongus Americanus*  
*Latrunc. Gelidium punctulata*  
 Many broken shells  
*Rain sp. Lophopsetta armata.*  
*Pseudopleuronectes Americanus*  
*Physic. Lophus*  
*Synbranchius fuscus.*  
*Lautogobius Adiposus*



Trawl  
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *545-*

Date, *Aug 31*

Locality, *Narragansett Bay*

Distance, *Bardonia light N  $\frac{1}{2}$  W*  
 *$\frac{3}{4}$  mile* *7*

Time of day, *1  $\frac{1}{2}$  P M* ; of tide,

State of sky, *Clear*

Temperature of air, *70*

surface of water, *69* (42666)

at depth of *5* fathoms, *67*

of bottom, *64* (42667)

Depth, in fathoms, *14  $\frac{1}{2}$*

Nature of bottom, *Shoal*

Direction of ~~surface~~ current, *mid* *N E*

Force of ~~surface~~ current, *do* *3*

Direction of ~~bottom~~ current, *Drift*

*Weak Drift*  
Force of ~~bottom~~ current,

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

*Lieut J L Lurmen*

Name and position of observer,

*Wm F. C. Van Vliet*

## REMARKS.

Trawl caught upon something just after  
it reached bottom & was hauled up  
immediately.

*Raja* sp. (young)

~~*Synaptura fusca*~~

~~*Leptogobius uterius*~~

*Physic. Arctis*

*Antonia Forbesii*

*Regina hirsuta*

*Crepidula fornicata*

Chester Lake Dairies  
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *846*

Date, *Aug 31*

Locality, *Norway and Little Bay*

Bearings, *Buddence light N 42 3/4 E*

*1 1/2 miles -*

Time of day, *1.35* ; of tide.

State of sky, *clear*

Temperature of air, *70*

surface of water, *68* (42556)

" at depth of *5* fathoms, *67*

" of bottom, *63* (42557)

Depth, in fathoms, *14 1/2*

Nature of bottom, *Gravel*

Direction of surface current, *mod NE*

Force of surface current, *mod 3*

Direction of bottom current, *NE*

Force of bottom current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *W S F C*

Name and rank of commanding officer,

*Lieut J L Lumsden*

Name and position of observer,

*Mr F. C. Van Kleeck*

## REMARKS.

*Astoria* *Lochei*  
*Pilchella sanguinolenta*  
*Canon* (spore)  
Many shells -

# TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *847*

Date, *Aug 31*

Locality, *Thuringian at the Bay*

Bearings, *Half Way Point N  $\frac{1}{4}$  W*

*1 mile*

Time of day, *2.15* ; of tide,

State of sky, *Clear*

Temperature of air, *70*

surface of water, *68* (42666)

at depth of *5* fathoms, *68*

of bottom, *62* (42667)

Depth, in fathoms, *12  $\frac{1}{2}$*

Nature of bottom, *Mud*

Direction of surface current, *wood East*

Force of surface current, *do 3*

Direction of bottom current, *drift drift NNE*

Force of bottom current,  *$\frac{1}{4}$  m*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

*Lieut. J. L. Larned*

Name and position of observer,

*Don Van Vleet*

## REMARKS.

847

Restoring below gone some  
just as found on a shelf  
with ships side and the  
contents (about 2 tons of mud)  
were dumped back into  
the sea.

Ward

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *848*

Date, *Aug 31*

Locality, *Murray's Bay*

Bearings, *Bishops Rock - East*  
*1/2 mile*

Time of day, *3* ; of tide,

State of sky, *clear*

Temperature of air, *69*

" surface of water, *68* (*42666*)

" at depth of *5* fathoms, *68*. (*10 of 67*)

" of bottom, *62* (*42227*)

Depth, in fathoms, *15 1/2*

Nature of bottom, *Mud.*

Direction of surface current, *Mud S E*

Force of surface current, *do 3*

Direction of bottom current, *drift N*

*Drift 1/4 N*  
Force of bottom current, *1/4 N*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

*Lieut Z L Landon*

Name and position of observer,

*Lt H C Van Vleet*

## REMARKS.

*Rana trimaculata*  
*Pseudophryne olivacea*  
*Lythrypsis maculata*  
*Pseudophryne olivacea*  
*Stenotriton argyrops*  
*Physalis tenuis*  
*Agave americana*  
*Funaria hygrometrica*



# Chester R. Bridge

## TEMPERATURE RECORD.

Instrument used,

N 3

Current number of observation,

849

Date,

Sept 1<sup>st</sup>

Locality,

Maryonsett Bay -

Bearings,

Point Plumpling.

N x N  $\frac{1}{2}$  W

1/4 mile

Time of day,

9.20

; of tide, ebb

State of sky,

Clear

Temperature of air,

67

" surface of water, 67

(42656)

" at depth of 5 fathoms, - 67. (10 f 66)

" of bottom, 63

40007

Depth, in fathoms,

20

Nature of bottom,

Sand

Direction of ~~surface~~ current,

Wind Variable

Force of ~~surface~~ current,

do 1

Direction of ~~bottom~~ current,

Drift S W

Force of ~~bottom~~ current,

$\frac{1}{4}$  mile

Name of vessel,

Fish Hawk

To what service attached,

W S F C

Name and rank of commanding officer,

Lieut J L Lomen

Name and position of observer,

Dr F C Van Fleet

## REMARKS.

*Hydroids, Asterias vulgaris*  
*Asterias Forbesii.*  
*Empyrus longicauda*  
*Utriculus longicauda*  
*Egneria Chama.*  
*Empyrus pallidus*  
*Calappa borealis*  
*Lamprolaima olivacea*  
*Synagoge fuscus*

Hester Lake Bridges  
TEMPERATURE RECORD.

Instrument used, *T. T.*

Current number of observation, *858*

Date, *Sept 1<sup>st</sup>*

Locality, *Narragansett Bay*

Bearings, *Stumpeling. E N E  $\frac{1}{2}$  E*  
 *$\frac{1}{2}$  mile*

Time of day, *9.40* ; of tide, *Ebb*

State of sky, *Clear*

Temperature of air, *67*

" surface of water, *67* (*42666*)

" at depth of *5* fathoms, *67* (*10/66*)

" of bottom, *63* (*4227*)

Depth, in fathoms, *14  $\frac{1}{2}$*

Nature of bottom, *Shells*

Direction of surface current, *Wind East*

Force of surface current, *do. 2*

Direction of bottom current, *shift S S W*

*With drift*  
Force of bottom current,  *$\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

*Lieut. J. L. Lomen*

Name and position of observer,

*Lt. J. C. Taw & Lieut*

850

REMARKS.

Sand dollars -  
*Empygaus longicarpus*

Justis Lake Hodge

TEMPERATURE RECORD.

Instrument used, *23*

Current number of observation, *851*

Date, *Sept 1<sup>st</sup>*

Locality, *Nanogansett Bay*

Beacon, *Green Tail Light S W  $\frac{1}{4}$  W*  
*1  $\frac{1}{4}$  miles*

Time of day, *10* ; of tide, *Ebb*

State of sky, *Clear*

Temperature of air, *66*

surface of water, *67* (*426661*)

at depth of *5* fathoms, *66*

of bottom, *66* (*42207*)

Depth, in fathoms, *12  $\frac{1}{2}$*

Nature of bottom, *hard*

Direction of surface current, *Wind* *SE*

Force of surface current, *do.* *2*

Direction of bottom current, *light*

*light* *light* *S*  
*Force of bottom current,* *1/4 miles*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,

*Lt J. L. Larimer*

Name and position of observer,

*Lt J. C. Van Vleet*

837

REMARKS.

Much Laminaria &  
gravel  
Lycopodium fuscus

Yan

# TEMPERATURE RECORD.

Instrument used, *117*

Current number of observation, *852*

Date, *Sept 1<sup>st</sup>*

Locality, *Mary's Bay -*

Bearings, *Bear's E. Light S S W  $\frac{3}{4}$  W*  
*2  $\frac{1}{2}$  miles*

Time of day, *10.35* ; of tide, *ebb*

State of sky, *clear*

Temperature of air, *67*

" surface of water, *76* (*67.1*) (*2666*)

" at depth of fathoms,

" of bottom, *66* (*4000*)

Depth, in fathoms, *2  $\frac{1}{2}$*

Nature of bottom, *sand*

Direction of surface current, *Wind* *E - S*

Force of surface current, *slow* *1*

Direction of bottom current, *Drift* *S*

*Drift*  
Force of bottom current, *Drift*  *$\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer,

*Lieut. J. L. Tanner*

Name and position of observer,

*Mr. F. C. Van Vleet*

Note -  
*Mud channel in Muckusuk  
Cove.*

## REMARKS.

*Laminaria*  
*Loligo Reagii*  
*Echinocardium* *forma*  
*Homarus americanus*  
*Empoasca pallidus*  
*Stenobothrus angustus*  
*Pseudopleuronectes americanus*  
*Lophopsetta maculata*  
*Raja erinacea*  
*Prionotus carolinus*  
*Centrolophus asperus*  
*Myoxanthus fuscus*  
*Psilodromus dentatus*



# TEMPERATURE RECORD.

Instrument used, *R. Z.*

Current number of observation, *853*

Date, *Sept 1<sup>st</sup>*

Locality, *Herring mouth Bay*

Bearings *Beaver tail light - S 78 x S*

*2 miles*

Time of day, *10.50* ; of tide, *ebb*

State of sky, *Clear*

Temperature of air, *68*

surface of water, *76* *[67?]* *42566*

at depth of fathoms,

of bottom, *67* *40007*

Depth, in fathoms, *4 1/2*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *Wind E*

Force of ~~surface~~ current, *do 1*

Direction of ~~bottom~~ current, *Drift S*

*Fast Drift*  
Force of ~~bottom~~ current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

*Lieut J. L. Larnen*

Name and position of observer,

*Mr. F. C. Van Vliet*

*Note - mid channel in No. 1 channel  
Cove.*

*Laminaria*  
*Homarus Americanus*  
*Liliopsis emarginata*  
*Salix Purshii*  
*Lophoposetta maculata*  
*Pseudoschombus dentatus*  
*Pseudopleuronectes Americanus*  
*Menomimus Ascyraea*  
*Cypraea regalis*  
*Raia*  
*Perionotus Carolinus*  
*Sautogalabrus adspersus*

Trawl  
TEMPERATURE RECORD.

Instrument used,

N 3

Current number of observation,

854

Date,

Sept. 1<sup>st</sup>

Locality,

Massachusetts Bay

Bearings,

Brown tail light S W  $\frac{1}{4}$  S

1  $\frac{3}{4}$  miles

Time of day, 11.10

of tide, ebb

State of sky,

clear

Temperature of air,

69

surface of water,

67

42666

at depth of

fathoms,

of bottom,

67

40007

Depth, in fathoms,

6

Nature of bottom,

sand -

Direction of ~~surface~~ current,

Wind

SE

Force of ~~surface~~ current,

do,

1

Direction of ~~bottom~~ current,

light

S

~~Force of bottom~~ current,

do

$\frac{1}{4}$  mile

Name of vessel,

Fish Hawk

To what service attached,

U.S.F.C.

Name and rank of commanding officer,

Lieut. J. L. Lammie

Name and position of observer,

Mr. H. C. Van Dike

Note - mid channel in moderate current

854  
REMARKS.

Spine character as last  
*Limulus Polyphemus*  
*Homarus Americanus*  
*Stomatopus Anguipes*  
*Priosteus Carolinus*  
*Pseudosquilla dentatus*  
*Leptochelone Odontaspis*  
*Pseudosquilla americana*  
*Leptochelone maculata*  
*Cynodon regalis*

*Tran*  
TEMPERATURE RECORD.

Instrument used, *N 3*  
Current number of observation, *855-*  
Date, *Sept 1<sup>st</sup>*  
Locality, *Narragansett Sound*  
Bearings, *Beacon Point light S W x S*  
*2 miles*  
Time of day, *11. 40* ; of tide, *ebb*  
State of sky, *Clear*  
Temperature of air, *70*  
" surface of water, *68* *42666*  
" at depth of fathoms,  
" of bottom, *68* *42007*  
Depth, in fathoms, *3 1/2*  
Nature of bottom, *~~ss~~ Sand*  
Direction of surface current, *none E*  
Force of surface current, *do 1*  
Direction of bottom current, *Drift S*  
*East*  
Force of bottom current, *do 1/4 mile*  
Name of vessel, *Fish Hawk*  
To what service attached, *U.S.F.C.*  
Name and rank of commanding officer,  
*Lieut J. L. Loomis*  
Name and position of observer,

*Lt J. C. Van Vleet*

## REMARKS.

*Raia erinacea*,  
*Chilichthys surgidus*  
*Menotomus aegleops*  
*Pseudopleuronectes americanus*  
*Lophopsetta maculata*  
*Symphodus fuscus*  
*Pleuronectes Carolinus*

Charles Knappe Hensley  
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *85-6*

Date, *Sept. 1<sup>st</sup>*

Locality, *Narragansett Bay*

Bearings, *Beacon light S  $72^{\circ}$  E*

*1  $\frac{3}{8}$  miles*

Time of day, *12:05* ; of tide,

State of sky, *clear*

Temperature of air, *69*

" surface of water, *68*

*42666*

" at depth of *5* fathoms,

" of bottom, *67*

*41027*

Depth, in fathoms, *11*

Nature of bottom, *Gravel.*

Direction of ~~surface current~~, *Wind E*

Force of ~~surface current~~, *do 2*

Direction of ~~bottom current~~, *Drift S S E*

~~Force of bottom current~~, *do  $\frac{1}{4}$  mile*

Name of vessel, *Fish Hawk*

To what service attached, *US F C*

Name and rank of commanding officer,

*Lt J L Larnen*

Name and position of observer,

*Lt J C Knappe*

856

REMARKS.

Cyprina Islandica  
Mytilus edulis



Chester Lake dredge -  
TEMPERATURE RECORD.

Instrument used, *N Z*  
Current number of observation, *857*  
Date, *Sept 1<sup>st</sup>*  
Locality, *Narragansett Bay -*  
Bearings, *Beaver tail light - N S N  $\frac{3}{4}$  W*  
 *$\frac{1}{10}$  mile*  
Time of day, *12.35* ; of tide,  
State of sky, *b. c. -*  
Temperature of air, *69*  
" surface of water, *63* *42666*  
" at depth of *10* fathoms, *66.5*  
" of bottom, *66* *40007*  
Depth, in fathoms, *19 -*  
Nature of bottom, *sand -*  
Direction of surface current, *none SE*  
Force of surface current, *do 2*  
Direction of bottom current, *Drift SE*  
*Drift* Force of bottom current, *do  $\frac{1}{4}$  mile*  
Name of vessel, *Fish Hawk*  
To what service attached, *U S F C*  
Name and rank of commanding officer,  
*Lieut J L Looman*  
Name and position of observer,

*Dr F C Van Vleet*

857

REMARKS.

Large quantities Laminaria  
to other sea weeds

# Chester Lake Bridge

## TEMPERATURE RECORD.

Instrument used,

28

Current number of observation,

85-8

Date,

Sept 1<sup>st</sup>

Locality,

Narrowscott Bay

Bearings,

Beaver Tail Light N. 1/4 W.  
1/3 mile

Time of day,

1.05

; of tide,

flood

State of sky,

Clear

Temperature of air,

69

"

surface of water,

63

42666

"

at depth of

60

fathoms,

66.5

"

of bottom,

66

40007

Depth, in fathoms,

14

Nature of bottom,

shelly

Direction of surface current,

W. 2 E

Force of surface current,

do, 2

Direction of bottom current,

drift E

Force of bottom current,

do 1/4 mile

Name of vessel,

Fish Hawk

To what service attached,

W S & C

Name and rank of commanding officer,

H Z L Larnen

Name and position of observer,

John H. Van Klee

## REMARKS.